

MOSSES OF SEVERAL OHIO COUNTIES.

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In the course of the last 20 years excursions were undertaken now and then, mostly in Northern Ohio, to prepare a list of the Moss Flora of that part of the State. The names of the counties where the species were collected are abbreviated: C stands for Cuyahoga, E for Erie, G for Geauga, L for Lake, Li for Licking, M for Medina, O for Ottawa, P for Portage, Pe for Perry and S for Summit.

More than 1000 boxes and packages, containing an almost innumerable number of specimens, represent the result. They are incorporated in the collector's herbarium. Their description is found in Lesquereux and James' Manual and a key, helping in the determination, was published by Barnes and Heald in 1896. Several of these mosses were never found fruiting, as for instance, *Eurynchium Boscii* and *Myurella Careyana*, others such as *Climacium americanum*, *Bryum roseum* and the *Sphagnum* once only. Quite a number of sterile ones, however, are yet on hand, waiting to be identified, which may be possible only by comparing them with the *Exisccatæ*.

It is the ardent wish of the writer that this list may induce students of Botany to make themselves acquainted with the highly interesting mosses. They can be assured that without fail great pleasure will be their reward.

LIST OF MOSSES.

I. **Sphagnaceæ** (Peat Mosses).

- Sphagnum acutifolium*, Ehrh. On the ground; C, S.
- Sphagnum cuspidatum*, Ehrh. On the ground; C, L, S.
- Sphagnum cymbifolium*, Ehrh. On the ground; C, G, P, S.
- Sphagnum recurvum*, Beaur. On the ground; S.
- Sphagnum subsecundum*, Nees. On the ground; C, L.

II. **Bryaceæ** (True Mosses).

a. **Acrocarpi.**

- Atrichum angustatum*, Br. and Sch. On the ground and rock; C, E.
- Atrichum undulatum*, Beaur. On the ground; C.
- Aulacomnium heterostichum*, Br. and Sch. On the ground; C, L, P, S.
- Aulacomnium palustre*, Schwaeger. On the ground; C, G, L, P, S.

- Aulacomnium palustre polycephalum*, Schwaegr. On the ground; C, P.
Barbula nuchronifolia, Br. and Sch. On the ground (base of tree); C.
Barbula ruralis, Hdw. On the ground (sand); E.
Barbula unguiculata, Hdw. On the ground; C.
Bartramia pomiformis Hdw. On the ground; C, L.
Bryum argenteum, L. On the ground; C, E.
Bryum bimum, Schreb. On the ground, rock and rotten wood; C, P.
Bryum caespititium, L. On the ground, rock and rotten wood; C, L, S.
Bryum inclinatum, (Lw.) Br. and Sch. On decomposed slate; S.
Bryum intermedium, Brid. On the ground, rock and rotten wood;
C, E, L, Li, O.
Bryum roseum, Schreb. On rotten wood and leaves; C, L, O, S.
Ceratodon purpureus, L. On the ground, rock and rotten wood;
C, E, L, S.
Desmatodon arenaceus, Sull., Lesq. On rock; C, L, Li, S.
Dicranella heteromalla, Schimp. On the ground, rock and rotten
wood; C, L, Li, S.
Dicranella rufescens, Schimp. On the ground; C.
Dicranella varia, Schimp. On the ground and slate; C.
Dicranum flagellare, Hedw. On rotten wood; C, L.
Dicranum fulvum, Hook. On rock; C, S.
Dicranum fuscescens, Turn. On rotten wood; C.
Dicranum scoparium (L), Hedw. On the ground; C, L.
Didymodon rubellus, Br. and Sch. On the ground over rock; C.
Diphyscium foliosum, Mohr. On the ground; C.
Discelium nudum, (Dicks.), Brid. On the ground; C.
Ditrichum pallidum, (Schreb.), Hampe. On the ground; C.
Ditrichum tortile, (Schr.) Lindl. On the ground; C.
Drummondia clavellata, Hook. On bark; C.
Ephemerum serratum, Hampe. On the ground; C.
Fissidens adianthoides, Hdw. On the ground; C, O.
Fissidens cristatus, Wils. On rock; C.
Fissidens incurvus, Schwaegr. On rock; C.
Fissidens obtusifolius, Wils. On rock; C.
Fissidens sublasilaris, Hedw. On rotten wood; C.
Fissidens touxifolius, Hedw. On the ground, rock and rotten wood;
C, L, O.
Fontinalis antipyretica, L. On rock in water; C, E, L.
Funaria hygrometrica, L. On the ground, rock and rotten wood;
C, E, G, L, P, S.
Grimmia apocarpa, Hedw. On rock; C, O.
Gymnostomum calcareum, Nees and Hornsch. On rock; C, O, S.
Gymnostomum curvirostrum, Hewd. On rock; C.
Gymnostomum rupestre, Schwaegr. On rock; C, L, S.
Hedwigia ciliata, Ehrh. On rock; C, G, L, S.
Leptobryum pyriforme, (L.) Schimp. On ground and rock; C, L, O, S.
Leucobryum glaucum, (L.) Schimp. On the ground; C, G, S.
Mnium affine, Bland. On the ground and rock; C, L.
Mnium cuspidatum, Hdw. On the ground; C, P.

- Mnium Drummondii*, Br. and Sch. On the ground; C.
Mnium punctatum, Hdw. On the ground and rotten wood; C.
Mnium rostratum, Schwaegr. On the ground and rock; C.
Mnium serratum, Laich. On the ground and rock; C, L.
Orthotrichum anomalum, Hedw. On rock; O.
Orthotrichum strangulatum, Beaur. On bark; C, G, Li, M.
Philonotis fontana, Brid. On the ground; C, G, L.
Physcomitrium immersum, Sull. On the ground; C, G.
Physcomitrium turbinatum, C. Muell. On the ground; C.
Pleuridium alternifolium, Brid. On the ground; C.
Pogonatum brevicaulis, Beaur. On the ground; C, L.
Polytrichum commune, L. On the ground; C, G, L, P.
Polytrichum juniperinum, Willd. On the ground; C, P.
Polytrichum Ohioense, Ren. and Card. On the ground; C, G, L, P, S.
Schistostega asmundacea, Web. and Mohr. On the ground in cave; P.
Tetraphis pellucida, Hedw. On rock and rotten wood; C, P, S.
Timmia megapolitana, Hedw. On the ground; C, S.
Ulota crispa, (L.) Brid. On bark; C.
Ulota crispula, (Bruch) Brid. On bark; C.
Ulota Hutchinsiae, Schimp. On rock (erratic boulder); C.
Webera albicans, Schimp. On the ground; C.
Webera elongata, Schwaegr. On rock; L.
Webera nutans, Hedw. On the ground, peat and rotten wood; C, Li, P, S.
Weisia viridula, Brid. On the ground; C.

C. Pleurocarpi.

- Amblystegium adnatum*, (Hedw.) Austin. On old bark and rock; C, L.
Amblystegium compactum, (C. Muell.) Austin. On dripping rock; C.
Amblystegium confervoides, (Brid.) Br. and Sch. On rock; C.
Amblystegium irriguum, (Wils.) Br. and Sch. On moist ground, rock and rotten wood; C, G, L, S.
Amblystegium irriguum spinifolium, Schimp. On moist ground and rock; C, P.
Amblystegium riparium, (Hedw.) Br. and Sch. On moist ground and old wood; M, S.
Amblystegium riparium fluitans. Floating in water; C.
Amblystegium serpens, (Hedw.) Br. and Sch. On old bark, wood and rock; C, L, P, S.
Amblystegium varium, (Hedw.) Lindl. On the ground, rock and rotten wood; C, L, Li.
Anacamptodon splachnoides, Brid. Around moist knot hole of sugar maple; C.
Anomodon attenuatus, Huebn. On the ground, old bark and rotten wood; C, M.
Anomodon obtusifolius, Br. and Sch. On rotten bark and wood; C.
Anomodon rostratus, Schimp. On bark (base of tree) and rotten wood; C, S.

- Brachythecium acuminatum* (Beaur.) Br. and Sch. On decayed trunk and rock; C.
- Brachythecium plumosum* (Swartz) Br. and Sch. On rock; C, S.
- Brachythecium populeum* (Hedw.) Br. and Sch. On rock; C.
- Brachythecium rutabulum*, (L.) Br. and Sch. On rock and rotten wood; C.
- Brachythecium salebrosum*, (Hoffm.) Br. and Sch. On the ground and rotten wood; C, E, L, M, S.
- Brachythecium velutinum*, (Hedw.) Br. and Sch. On the ground; C.
- Climacium americanum*, Brid. On the ground and rotten wood; C, G, L, P, S.
- Cylindrothecium brevisetum*, (Hook and Wils.) Schimp. On rotten wood; C.
- Cylindrothecium cladorrhizans*, (Hedw.) Schimp. On ground over rock and rotten wood; C, E, M, P.
- Cylindrothecium compressum*, (Hedw.) Br. and Sch. At base of old sycamore (sometimes inundated); C.
- Cylindrothecium seductrix*, (Hedw.) Schimp. On ground over rock and rotten wood; C, E, L, P.
- Eurynchium Boscii*, (Schwaegr.) Schimp. On the ground and sandrock; C.
- Eurynchium hians*, (Hedw.) Jaeg. and Sauerb. On the ground and rock; C, L.
- Eurynchium piliferum*, Br. and Sch. On the ground; C.
- Eurynchium strigosum*, (Hoffm.) Br. and Sch. On the ground, rock and rotten wood; C.
- Homalothecium subcapillatum*, Sull and Lesq. On bark; C.
- Hylocomium brevirostre*, (Ehrh.) Br. and Sch. On the ground; C, L.
- Hylocomium rugosum*, (Ehrh.) De Not. On the ground; C, S.
- Hylocomium splendens*, (Hedw.) Br. and Sch. On old wood and ground below pines; C.
- Hylocomium triguatum*, (L.) Br. and Sch. On the ground; C.
- Hypnum chrysophyllum*, Brid. On the ground; C, L, Li, O.
- Hypnum cristacastrensis*, L. On old wood; C, S.
- Hypnum cupressiforme*, L. On the ground, rock and rotten wood; C, G.
- Hypnum cupressiforme longirostre*, Br. and Sch. On rotten wood; C, L.
- Hypnum curvifolium*, Hedw. On the ground and rotten wood; C.
- Hypnum cuspidatum*, L. On rock; C.
- Hypnum Haldanianum*, Grev. On the ground, old bark and rotten wood; C, L, S.
- Hypnum hispidulum*, Brid. On the ground and old wood; C, L, P.
- Hypnum imponens*, Hedw. On rotten wood; C, L, P, S.
- Hypnum molluscum*, Hedw. On rock and stony ground; C, L.
- Hypnum ochraceum*, Turn. On sandrock in creek; C.
- Hypnum Patientiae*, Lindl. On the ground; C.
- Hypnum pratense*, Koch. On the ground; C, Li.
- Hypnum Schreberi*, Willd. On the ground; C, G, L.

- Hypnum uncinatum*, Hedw. On rock; C.
Leskea obscura, Hedw. On old bark and rock; C.
Leskea polycarpa, Ehrh. On old bark and wood; C, G.
Leucodon julaceus, Sull. On bark; C, E, O.
Myurella Careyana, Sull. On sandrock; C.
Neckera pennata, Hedw. On old bark; C.
Plagiothecium denticulatum, (L.) Br. and Sch. On the ground and rotten wood; C, E, G, L, P, S.
Plagiothecium denticulatum densum, Br. and Sch. On rock; L.
Plagiothecium Muellerianum, Schimp. On rock; C.
Plagiothecium Sullivantiae, Schimp. On rock; C, L, S.
Plagiothecium sylvaticum, Br. and Sch. On the ground and rotten wood and leaves; C.
Platygyrium repens, Br. and Sch. On old bark and wood; C, S.
Pylaisia intricata, Br. and Sch. On old bark and wood; C, G, L, S.
Pylaisia velusina, Br. and Sch. On old bark and rotten wood; C, E, L, Pe.
Raphidostegium cylindricarpum, (C. Muell.) De Not. On rock; C.
Raphidostegium demissum, Br. and Sch. On rock; C.
Raphidostegium microcarpum, Muell. On birch bark; C.
Raphidostegium recurvans, (Schwaegr.) Br. and Sch. On rotten wood; C, L.
Rhynchostegium rusciforme, (Neck.) Br. and Sch. On moist rock; C, G, S.
Rhynchostegium serrulatum, (Hedw.) Br. and Sch. On the ground, rock, rotten leaves and wood; C, L, S.
Thelia asprella, (Schimp.) Sull. On old wood; C, E, Pe.
Thelia compacta, Kindberg. On old bark; L.
Thelia hirtella, Sull. On old bark; C.
Thuidium Blandovii, (Web. and Mohr) Br. and Sch. On the ground; G, L, P.
Thuidium delicatulum, Mitt. On rock; L.
Thuidium microphyllum, (Sull.) Best. On old bark and rock; C.
Thuidium minutulum, Hedw. On rock; C.
Thuidium paludosum, (Sull.) Rau. and Harvey. On the ground; G.
Thuidium pygmaeum, Sull. and Lesq. On sandrock; C.
Thuidium recognitum, (Lindl.) On the ground and rotten wood, C, L, S.
Thuidium scitum, Austin. On rotten wood; C.
Thuidium Virginianum, (Brid.) Lindl. On rotten wood; C.